

**COTTON, North Georgia, Minimum Tillage, Non-Irrigated
2017 ESTIMATED PER ACRE COSTS AND RETURNS**

Seed Technology:	*B2RF, B2XF, WRF, GLT, or GLB2	Row Spacing:	38
Tillage:	Minimum Till/ No-Till	Seed Per Foot:	3.00
Production:	Non-Irrigated	Seed Per Acre:	41,267

EXPECTED INCOME	Lbs/Acre	Avg Price**	Income/Ac	Cents/Lb
	850	0.725	\$616.25	72.50

VARIABLE COST	Unit	No. Units	Price/Unit	Cost/Acre	Cents/Lb		
Cover Crop- Wheat Seed	Lbs	40	0.24	9.60	1.13		
Cover Crop- Fertilizer (K2O)	Lbs	30	0.28	8.40	0.99		
Land Rent	Acre	1	0.00	0.00	0.00		
Crop Insurance (Excluding STAX)	Acre	1	15.00	15.00	1.76		
Seed (Including Tech Fees and Seed Treatments)	1,000 seed	41.27	2.47	101.93	11.99		
Lime- Custom Spread	Ton	0.33	42.00	13.86	1.63		
Fertilizers							
Nitrogen	Lbs	90	0.42	37.80	4.45		
Phosphate (P2O5)	Lbs	60	0.39	23.40	2.75		
Potash (K2O)	Lbs	90	0.28	25.20	2.96		
Chicken Litter- Custom Spread	Tons	0	44.00	0.00	0.00		
Boron, Sulfur, and Others	Acre	1	4.50	4.50	0.53		
Weed Control							
Burndown	Acre	1	8.13	8.13	0.96		
At Planting or PRE	Acre	1	0.00	0.00	0.00		
POST	Acre	1	22.62	22.62	2.66		
Layby	Acre	1	6.25	6.25	0.74		
Hand Weeding	Acre	1	0.00	0.00	0.00		
Insect Control							
Scouting	Acre	1	0.00	0.00	0.00		
In-Furrow	Acre	1	0.98	0.98	0.12		
Spray- Thrips	Applications	1	2.95	2.95	0.35		
Spray- Stink Bugs, Plant Bugs	Applications	3	4.00	12.00	1.41		
Nematicide (If no seed treatment used)	Acre	1	0.00	0.00	0.00		
Fungicide (If no seed treatment used)	Acre	1	0.00	0.00	0.00		
PGR	Ounces	45	0.070	3.16	0.37		
Defoliant and Boll Opener	Acre	1	17.00	17.00	2.00		
Machinery and Equipment							
Fuel and Lube	Gal	15.10	1.90	28.69	3.38		
Repairs and Maintenance	Acre	1	43.51	43.51	5.12		
Custom Applications	Applications	2	6.00	12.00	1.41		
Custom Picking	Acre	1	0.00	0.00	0.00		
Labor	LT/MT	1.65	Hrs	2.73	12.50	34.07	4.01
Interest on Operating	Months	6	\$413.06	0.50	6.50%	13.42	1.58
Ginning and Warehousing							
Ginning	Lbs	850	0.080	68.00	8.00		
Other (Hauling, Etc.)	Bale	1.71	0.00	0.00	0.00		
Storage and Warehousing	Bale	1.71	10.50	17.99	2.12		
Promotions, Boards, Classing	Bale	1.71	5.95	10.19	1.20		
Cottonseed Credit	Gin T/O	40%	Ton	0.53	175.00	-92.97	-10.94
BWEP	Bale	1.71	0.75	1.29	0.15		

TOTAL VARIABLE COSTS	\$430.99	50.70
NET RETURN ABOVE VARIABLE COST	\$185.26	21.80

Tractors and Sprayer	Acre	1	90.30	90.30	10.62
Equipment/Implements	Acre	1	23.33	23.33	2.75
Picker/BB/MB	Acre	1	99.38	99.38	11.69
Owned Land Charge	Acre	1	0.00	0.00	0.00
Misc Overhead	% of Var Costs	\$430.99	5.0%	21.55	2.54
Management	% of Var Costs	\$430.99	5.0%	21.55	2.54

TOTAL FIXED COSTS	\$256.11	30.13
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TOTAL COST	\$687.10	80.84
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NET RETURN	-\$70.85	-8.34
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* This does not constitute a recommendation of technologies. These were the technologies most widely planted in GA in 2016.
 ** Planning or budget price based on futures prices and outlook as of early March 2017. Includes adjustments for fiber quality.

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2017 ESTIMATED PER ACRE COSTS AND RETURNS**

PER ACRE NET RETURN ABOVE VARIABLE COST AT VARIOUS PRICES, YIELD, and RENT

Rent/Ac	0.675			0.725			0.775		
	750	850	950	750	850	950	750	850	950
50	24.17	91.14	158.11	61.67	133.64	205.61	99.17	176.14	253.11
75	-1.65	65.33	132.30	35.85	107.83	179.80	73.35	150.33	227.30
100	-27.46	39.51	106.48	10.04	82.01	153.98	47.54	124.51	201.48
125	-53.27	13.70	80.67	-15.77	56.20	128.17	21.73	98.70	175.67
150	-79.08	-12.11	54.86	-41.58	30.39	102.36	-4.08	72.89	149.86

Acres of This Crop		500										
New Price	Fixed Costs Per Year				Fixed Costs Share For This Crop				Repairs and Maintenance			
	% FC	Total FC	Hrs Use	FC/Hr	% Use	Hrs Use	Hrs/Ac	FC/Acre	Est RM	This Crop	Per Acre	
Tractors												
200 HP	196000	11.50	22540	300	75.13	50	150	0.300	22.54	4500	2250	4.50
150 HP	143000	11.50	16445	300	54.82	60	180	0.360	19.73	3300	1980	3.96
130 HP	123000	11.50	14145	400	35.36	60	240	0.480	16.97	2900	1740	3.48
Hi-clearance sprayer												
	195000	12.25	23888	200	119.44	65	130	0.260	31.05	4900	3185	6.37
Picker												
	310000	13.50	41850	125	334.80	100	125	0.250	83.70	8600	8600	17.20
Totals			118868				87001		174.00	24200	17755	35.51

Fuel Cost Per Gallon		\$1.90													
Job or Implement- Size	Total Farm			Fixed Costs Per Year			Fixed Costs This Crop		Repairs and Maintenance			Fuel and Lube			
	Acres/Yr*	HP Used	Acres/Hr	New Price	% FC	Total FC	% Use	FC/Acre	Est RM	This Crop	Per Acre	Hrs/Ac	Gal/Hr	Cost/Ac	
Custom broadcast cover + fertilizer						0		0.00		0	0.00		0.00		
Ripper 7-24"	500	200	4.5	19000	12.25	2328	100	4.66	500	500	1.00	0.222	8.80	4.27	
Disk Harrow- 28 ft	700	200	13.5	45000	12.25	5513	70	7.72	1100	770	1.54	0.074	8.80	1.42	
Spray-- burndown	5800	175	30.0			0		0.00		0	0.00	0.033	7.70	0.56	
Custom fertilizer						0		0.00		0	0.00		0.00		
Plant- 8-row w/ in-furrow spray	1000	150	10.5	43000	12.25	5268	50	5.27	1100	550	1.10	0.095	6.60	1.37	
Spray-- POST herb + insecticide	5800	175	30.0			0		0.00		0	0.00	0.033	7.70	0.56	
Sidress-- 8 row liquid	700	130	9.5	17000	12.25	2083	70	2.92	425	298	0.60	0.105	5.72	1.32	
Spray-- POST herb	5800	175	30.0			0		0.00		0	0.00	0.033	7.70	0.56	
Spray-- insecticide	5800	175	30.0			0		0.00		0	0.00	0.033	7.70	0.56	
Spray- Layby herb+insect+PGR	5800	175	30.0			0		0.00			0.00	0.033	7.70	0.56	
Spray- insecticide + PGR	5800	175	30.0			0		0.00			0.00	0.033	7.70	0.56	
Spray- PGR + boron	5800	175	30.0			0		0.00			0.00	0.033	7.70	0.56	
Spray- PGR	5800	175	30.0			0		0.00			0.00	0.033	7.70	0.56	
Spray- defoliate	5800	175	30.0			0		0.00			0.00	0.033	7.70	0.56	
						0		0.00			0.00		0.00		
Picker- 4 row	500	300	4.0									0.250	13.20	7.21	
Boll Buggy	500	150	4.0	30000	12.25	3675	100	7.35	750	750	1.50	0.250	6.60	3.61	
Module Builder	500	130	4.0	34000	12.25	4165	100	8.33	850	850	1.70	0.250	5.72	3.12	
Mow stalks-- 15 ft	800	130	9.5	18000	12.25	2205	63	2.78	450	284	0.57	0.105	5.72	1.32	
						0		0.00		0	0.00		0.00		
						0		0.00			0.00		0.00		
Totals						25235	19507	39.01	5175	4001	8.00	1.652		28.69	

* All acres for the implement including multiple trips over the field. Disking 1,000 acres 2 times would be 2,000 acres total. Spraying 1,000 acres 6 times would be 6,000 acres.

Developed by Don Shurley, Department of Agricultural and Applied Economics, University of Georgia.

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